

# WMDT/CT Water Quality Evaluation

## Actions: Staging, effectiveness and tradeoffs

- Operations-related water quality actions
- Water Quality Program (source control, advanced treatment methods, separation of water after export from the Delta)
- Exchanges

## Comparisons

- CUWA intermediate and long-term targets for TOC, Br and TDS
- CALFED long-term targets
- Existing water quality

## Possible interactions with biological actions

- Consistent: increase outflow in fall, reduce pumping in Jan.-Mar. (reduce TOC)
- Inconsistent: increase pumping in May-July, open cross channel in fall

## Interaction with San Luis Reservoir

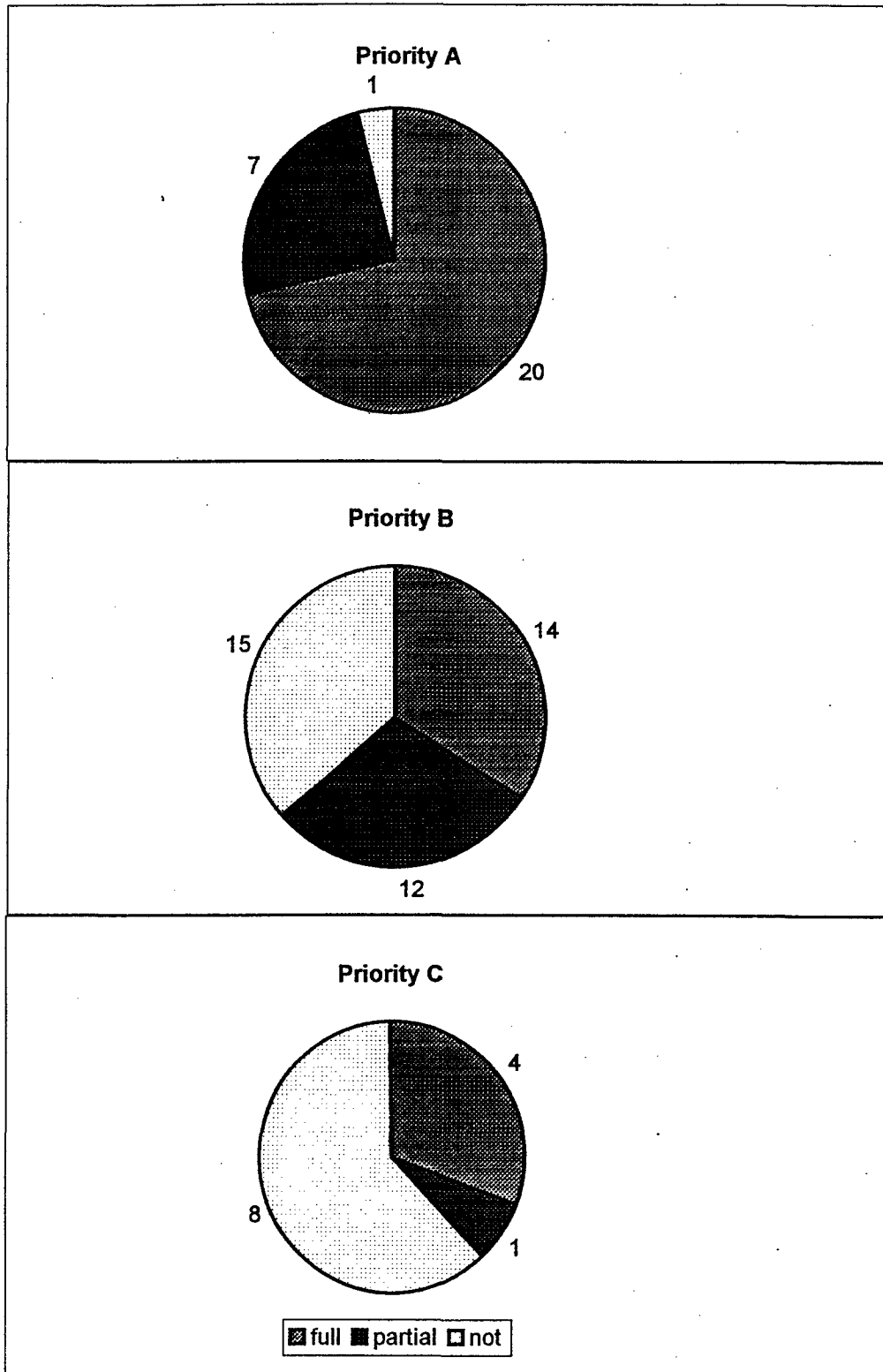
Organic Carbon (mg/L)		
Game 1A	Annual Weighted Averages	
Water Year	Base	Final
1981	3.6	3.5
1982	3.9	3.9
1983	3.3	3.3
1984	3.5	3.4
1985	3.7	3.6
1986	4.0	3.9
1987	3.6	3.6
1988	3.7	3.7

Chloride (mg/L)		
Game 1A	Annual Weighted Averages	
Water Year	Base	Final
1981	87	85
1982	37	37
1983	22	22
1984	29	29
1985	49	48
1986	55	50
1987	67	55
1988	106	101

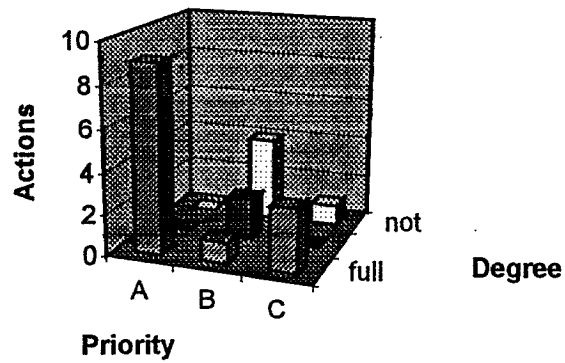
## **OVERARCHING QUALITATIVE RESULT**

There was substantial effect on water quality, water supply, and fisheries under varying conditions.

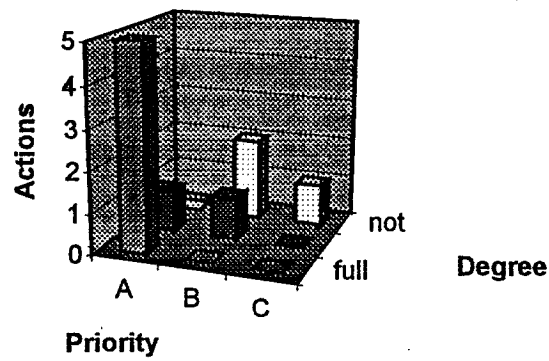
# FISHERY ACTIONS ACCOMPLISHED WITH b(2) IN EARLY STAGE 1



**April - May Salmon Actions with b(2) 1981-1989  
31-Day VAMP Exports and "Shoulders"**



**Winter run salmon survival  
Dec - March with b(2) 1981-1989**



**Delta Smelt YOY April - July with b(2) 1981-1989**

